

Kalendarium Nauticum:

The Sea-man's

ALMANACK,

For the Year of Christ, 1677.

Being the first after **Bissextile**, or
LEAP-YEAR.

Comprising not onely such things as are
usually contained in other Annual
Almanacks, but accommodated with such *Pre-
cepts, Rules, and Tables*, as are of daily use in
the Practise of

NAVIGATION and TRAFFICK.

Principally referred to the

Meridian of LONDON.

With Directions how it may become useful in any
part of the World, and especially to the King-
doms of

England, Scotland, and Ireland.

By **HENRY SEAMAN**, Mariner.

London, Printed by **T. N.** for the Com-
pany of Stationers. 1677.

The Common Notes and Moveable Feasts, for three Years past, and four Years to come, viz. from Anno 1674, to 1681, in both the English and Foreign Accounts.

English Account.						Foreign Account.					
Year of our Lo.	Golden N.	Epacl.	Letter.	Sunday	Shrove	day.	Easter	Whit-	Whit-	Easter	Sunday
1674	3	3	D	Mar. 1	Ap. 19	June 7	Jun. 10	22			
1675	4	4	C	Fe. 14	Ap. 4	Ma. 23	June 2	Ap. 14			
1676	5	25	B	Fe. 6	Ma. 26	Ma. 14	Ma. 24	9			
1677	6	6	G	Fe. 25	Ap. 13	Jun. 3	Jun. 6	18			
1678	7	17	F	Fe. 10	Ma. 31	Ma. 19	Ma. 29	10			
1679	8	28	E	Mar. 2	Ap. 20	Jun 8	Ma. 14	Ma. 26			
1680	9	9	D	Fe. 11	Ap. 11	Ma. 30	Jun. 9	Ap. 21			

The Terms, and their Returns.

Hilary Term begins Jan. 23. ends Feb. 12.	Trinity Term begins June 15. ends July 4.
Octab. Hil. Jan. 20.	Craft. Trin. June 11.
Quind. Hil. Jan. 27.	Octab. Trin. June 18.
Craft. Purif. Feb. 3.	Quind. Trin. June 25.
Octab. Purif. Feb. 10.	Tres Trin. July 2.
Easter Term begins May 21. ends May 28.	Michaelmas Term begins Octob. 23. ends Nov. 18.
Quind. Pasch. Apr. 30.	Cras Mich. Octob. 22.
Tres Pasch. May 7.	Mens. Mich. Octob. 29.
Mens. Pasch. May 14.	Craft. Anim. Nov. 3.
Quind. Pasch. May 21.	Craft. Mart. Nov. 12.
Craft. Ascen. May 25.	Octab. Mart. Nov. 19.
	Quind. Mart. Nov. 26.

Of the Four Quarters of the Year.

SPRING begins the 9 day of March, at 26 min. after 9 in the Afternoon.

SUMMER begins the 12 day of June, at 12 min. after midnight.

AUTUMN begins the 12 day of September, at 4 min. after 4 in the afternoon.

WINTER begins the 11 day of December, at 4 min. after 3 in the Morning.

Of the Eclipses this Year, 1677.

THere will be four Eclipses of the Luminaries this Year; Two of the *Sun*, and as many of the *Moon*.

The first Eclipse will be of the *Moon*, upon the 7 of *May*, at 25 min. after 3 in the morning. The beginning may be seen at *London*, but not the end, for that the *Sun* rises before the Eclipse be ended, near 7 digits of the *Moons* body will be darkned. And the end of the Eclipse may be seen by such as sail near the *Cape of Good hope*, in *Berim*, *Lower Lybia*, *Barbary*, *Spain*, &c.

The second will be of the *Sun* on the 21 of *May*, 34 min. after 10 in the forenoon. This Eclipse (although the *Sun* be above the *Horizon*) cannot be seen in *England*, nor these Northern parts of the *World*; but to the Inhabitant of the Islands of *St. Martin*, *Hellen*, *St. Mary*, &c. in the *Zemurian Lake*, it will appear a very great Eclipse.

The third will be of the *Moon*, on the 13 of *October*, about noon, and so cannot be seen of us; but to our *Antipodes*, and in *New France*, *Greenland*, *Florida*, *Cuba*, and to those that sail in the *Pacifick Ocean* it will be visible.

The fourth Eclipse will be of the *Sun*, on the 14 of *November*, near midnight, and therefore not to be seen in *England*; but to the Inhabitants of *China*, *Japan*, &c. it will appear a very great Eclipse.

VENUS this year, will be a morning Star till the 21 of *June*, and from thence she will be an evening Star till the 11 of *April* the next year, 1678.

A Table

**A Table to find the time of the Tydes in the chiefeft
Ports, in and near the Kingdom.
The Moon is South at**

Days after the Change and Full

0	1	2	3	4	5	6	7
12	12 48	1 36	2 24	3 12	4 00	4 48	5 36

Days after either of the Quarters at

0	1	2	3	4	5	6	7
6	6 48	7 36	8 24	9 12	10 00	10 48	11 36

h. qua.	Sourhampton, Portsmouth, Quinborough, Wellings,
0. 3.	Rye, Callis, Callhor, Winchelsey, Gorend.
1. 2.	Dover, Harwich, Wight, Yarmouth, Bulloign,
2. 1.	Needles, Deep, Casket, Lux, Lenow, Orf. Layst.
3. 0.	Orkny-pool, Orwel, S. Hel. Flee, Bams, Emden.
3. 3.	Portland, Peier p. Harelew, Higue, Blanchey.
4. 2.	Milford, Bridgewater, N. coast, Exwater, Texel.
5. 1.	Brillow, Lanton, Foulness.
6. 0.	Lin. Humb, Waymouth, Pimm. Ant.
	Aberden, Redban, Rochester, Malden, W. of N.
	Gravesend, Downs, Romney, Tener, Ramkins.
	Dundee, S. Andr. Lisbon, Silly, Maz, S. Lucas.
	London, Tinn, Hartlep. Amsterd. Glasgoign.
	Barwick, Offend, Scarb. Fount. Flambor. Flum.
	Frith, Leith, Dunb. Lawr. Bloy, Month. Egmont.
	Falmoth, Foy, Garnsey, Severn-m, Waterford.

6 hou.

0. 3.

1. 2.

2. 1.

3. 0.

3. 1.

4. 2.

5. 1.

When you have found by the Almanack, & the upmost Table, the day the Moon is at S. then look for the Haven or Port you desire; and if the hours and quarters stand before the Port, there it is High-water so many hours & quarters before the Moon comes at South: But if the hours and quarters stand after the Port, there it is High water so long after the Moon is at South.

As for Example,

By the first Tables you find, the Moon is South at 4 a clock, 5 days after the Change, which shews it is at that time Full Sea at Portsmouth, &c. at Dover, Harwich, &c. an hour and half sooner, viz. at 3 a clock and 30 minutes: But at London, Fimmouth, &c. 3 hours after, viz. at 7 a clock,

January hath xxxj days.

d. h. m. } 4 d. Sun }
 Full Mo. 8 11 16 N. } 22 d. Jup } is with
 Last Qu. 16 2 39 P. M. } 6 d. Mar } the
 New Mo. 23 5 30 M. } 20 d. Ven } Moon.
 First Qu. 30 3 00 P. M. } 23 d. Mer }

N. years	day	Taurus	00	21	51	4	25	11	d
1	a	7 59	4	1	12	21	41	4	21
2	b	7 58	4	2	21	31	4	17	13
3	c	7 57	4	3	Gemini	6	21	20	4
4	d	7 56	4	4	18	21	9	4	9
5	e	7 55	4	5	29	20	58	4	4
6	f	7 54	4	6	11	20	46	4	0
7	g	7 53	4	7	21	30	34	3	3
8	a	7 52	4	8	6	20	21	3	1
9	b	7 51	4	9	18	20	8	3	47
10	c	7 50	4	10	00	19	55	3	43
11	d	7 49	4	11	13	19	41	3	38
12	e	7 48	4	12	26	19	27	3	34
13	f	7 47	4	13	9	19	13	3	30
14	g	7 46	4	14	23	18	58	3	26
15	a	7 45	4	15	6	18	42	3	22
16	b	7 44	4	16	20	18	28	3	18
17	c	7 43	4	17	4	18	17	3	14
18	d	7 42	4	18	19	17	55	3	10
19	e	7 41	4	19	3	17	39	3	6
20	f	7 40	4	20	18	17	22	3	2
21	g	7 39	4	21	18	16	5	2	57
22	a	7 38	4	22	16	16	47	2	53
23	b	7 37	4	23	16	16	30	2	50
24	c	7 36	4	24	16	16	17	2	45
25	d	7 35	4	25	13	15	35	2	37
26	e	7 34	4	26	26	15	16	2	33
27	f	7 33	4	27	8	14	57	2	29
28	g	7 32	4	28	20	14	38	2	25
29	a	7 31	4	29	2	14	19	2	21
30	b	7 30	4	30	14	14	19	2	17
31	c	7 29	4	31	2	14	19	2	13

South Declination, Decreasing.

Right Ascension at Midnight.

Complement of the Sun's Right Ascension.

Febru

March hath xxxj days.

First Qu. 1d. 9h. 3m. M } 26 day Sat.
 Full Mo. 9 7 8 M } 19 day Jup.
 Last Qu. 16 5 19 M } 2 day Mar.
 New M. 23 2 5 M } 21 day Ven.
 First Qu. 31 6 00 M } 2 day Mer.




































} is with the Moon.

1	d	David B.	Gemin.	22	3	21	0	31	11	a
2	e	Chad.	Canc.	4	2	57	0	27	12	b
3	f	6 14. 5 46		16	2	34	0	25	13	c
4	g	Quadrages.		28	2	10	0	20	14	d
5	a	6 10 5 50	Leo	10	1	46	0	17	15	e
6	b	6 8 5 52		22	1	23	0	14	16	f
7	c	6 6 5 54	Virgo	5	0	59	0	10	17	g
8	d	6 4 5 56		18	0	35	0	7	18	a
9	e	6 2 5 58	Libra	2	0	12	0	3	19	b
10	a	Sun in Aries		15	N	12	11	39	20	c
11	g	Reminiscere		29	0	36	11	35	21	d
12	a	5 56 6 4	Scorp.	13	1	00	11	32	22	e
13	b	5 54 6 6		27	1	23	11	48	23	f
14	c	Peter Mart.	Sagit.	11	1	47	11	45	24	g
15	d	5 50 6 10		26	2	10	11	41	25	a
16	e	5 48 6 12	Capr.	10	2	32	11	37	26	b
17	f	5 46 6 14		24	2	57	11	34	27	c
18	g	Oculi	Aquar.	8	3	24	11	30	28	d
19	a	Joseph		21	3	44	11	25	29	e
20	b	5 42 6 18	Pisces	6	4	9	11	23	30	f
21	c	5 38 6 22		19	4	30	11	19	31	g
22	d	5 36 6 24	Aries	3	4	54	11	16		a
23	e	5 34 6 26		16	5	17	11	12		b
24	f	5 32 6 28		29	5	40	11	9		c
25	g	Annun. 31st	Taurus	12	6	3	11	5		d
26	a	5 28 6 32		24	6	25	11	1		e
27	b	5 26 6 34	Gemin.	6	6	48	10	57		f
28	c	5 24 6 36		18	7	11	10	54		g
29	d	5 22 6 38	Canc.	00	7	33	10	50		a
30	e	5 20 6 40		12	7	55	10	46		b
31	f	5 18 6 42		24	8	17	10	43		c

Complement of the Suns Right Ascension at Midnight.
 South Declination, decreasing.
 North Declination, increasing.

April hath xxx days.

d. h. m. 23 day Satu.
 Full Mo. 7 6 30 N 15 day Jup.
 Last Qu. 14 10 30 A.M. 28 day Mars } is with
 New Mo. 21 7 53 N 20 day Ven. } the
 First Qu. 29 11 10 N 20 day Mer. } Moon.

1		Judica	Leo	5	8	39	10	39	11	
2	a	5 14 6 46		18	9	1	10	35	12	
3	b	5 16 6 44	Virgo	00	9	23	10	31	13	
4	c	Ambrose.		13	9	44	10	27	14	
5	d	5 8 6 52		26	10	6	10	24	15	
6	e	5 6 6 54	Libra	10	10	27	10	20	16	
7	f	5 4 6 56		24	10	48	10	16	17	
8		Palm Sunda	Scorp.	8	11	9	10	13	18	
9	a	Sun in Taur		23	11	30	10	9	19	
10	b	5 00 7 00	Sagit.	8	11	50	10	6	20	
11	c	4 58 7 2		22	12	10	10	2	21	
12	d	Maundy Th	Capr.	6	12	30	9	58	22	
13	e	Good Frid		20	12	50	9	54	23	
14	f	5 52 7 8	Aqua.	5	13	9	9	50	24	
15		Easter day		18	13	29	9	47	25	
16	a	4 49 7 11	Pisces	2	13	49	9	43	26	
17	b	4 47 7 13		16	14	8	9	39	27	
18	c	4 45 7 15		29	14	26	9	35	28	
19	d	4 43 7 17	Aries	12	14	45	9	31	29	
20	e	Victor B. R.		25	15	3	9	28	30	
21	f	4 40 7 20	Taurus	7	15	21	9	24	May	
22		Low Sunday		20	15	39	9	20	2	
23	a	S. George	Gem.	2	15	57	9	16	3	
24	b	4 35 7 25		14	16	14	9	12	4	
25	c	S. Mar. Evan		26	16	31	9	9	5	
26	d	4 31 7 29	Canc.	8	16	48	9	5	6	
27	e	4 29 7 31		20	17	5	9	1	7	
28	f	4 28 7 32	Leo	2	17	21	8	57	8	
29		Miser. Dom		14	17	37	8	53	9	
30	a	4 25 7 35		26	17	52	8	50	10	

North Declination, increasing.
 Complement of the Sun's Right Ascension at Midnight.

May hath xxxj days.

d. h. m. { 20 day Satu. }
 Full Mo. 7 3 25 M { 13 day Jup. } is with
 Last Qu. 13 5 20 N { 26 day Mars } the
 New Mo. 21 10 34 A.M. { 20 day Ven. } Moon.
 First Qu. 29 1 9 P.M. { 22 day Mer. }

1	ph	S.Ph. & Jac.	Virgo	8	18	8	8	46	11	e	
2	c	Term begins		21	18	23	8	42	12	f	
3	d	Inv. Crucis	Libra	4	18	37	8	38	13	g	
4	e	4 18	7 42		18 18	52	8	34	14	a	
5	f	4 16	7 44	Scorp.	2	19	6	8	30	15	b
6	g	Jubilate		17	19	20	8	26	16	c	
7	a	4 14	7 46	Sagit.	1	19	33	8	22	17	d
8	b	4 13	7 47		16	19	46	8	18	18	e
9	c	4 11	7 49	Capr.	1	19	59	8	14	19	f
10	d	4 9	7 51		16	20	12	8	10	20	g
11	e	Sun in Gem.	Aqua.	1	20	24	8	6	21	a	
12	f	4 7	7 53		15	20	36	8	2	22	b
13	g	Canate		29	10	47	7	58	23	c	
14	a	4 5	7 55	Pisces	12	20	54	7	54	24	d
15	b	4 4	7 56		26	21	9	7	50	25	e
16	c	4 3	7 57	Aries	9	21	19	7	46	26	f
17	d	4 2	7 58		22	21	29	7	42	27	g
18	e	4 1	7 59	Taur.	4	21	39	7	38	28	a
19	f	4 00	8 00		16	21	47	7	34	29	b
20	g	Rogation S		29	21	57	7	30	30	c	
21	a	3 57	8 3	Gem.	11	22	5	7	26	31	d
22	b	3 56	8 4		23	22	13	7	22	June	
23	c	3 55	8 5	Cancer	5	22	21	7	18	2 f	
24	d	Ascension d		16	22	28	7	14	3	g	
25	e	3 54	8 6		28	22	35	7	10	4 a	
26	f	Augustine	Leo	10	22	42	7	6	5	b	
27	g	Exaudi		22	22	4	7	2	6	c	
28	a	Term ends	Virgo	4	22	54	6	58	7	d	
29	b	Char. II. nat		17	22	59	6	54	8	e	
30	c	3 50	8 10	Libra	00	23	4	6	49	9 f	
31	d	3 50	8 10		13	23	9	6	45	10 g	

Complement of the Suns Right Ascension at Midnight.	
North	Declination, Increasing.

Complement of the Sun's Right Ascension at Midnight.

North Declination, Increasing.

June hath xxx days.

	d. h. m.		17 day Satu.	is
Full Mo.	5 10 45	M	9 day Jup.	with
Last Qu.	12 2 11	M	24 day Mar.	the
New Mo.	20 1 15	M	20 day Ven.	Moo.
First Qu.	28 1 18	M	21 day Mer.	

1	e	Nichomede	Libra	28 23	13	8	41	11	a	
2	f	3 49	8 11	Scorp.	10 23	17	6	37	12	b
3	G	Whitsunday		25 23	20	6	33	13	c	
4	a	3 49	8 11	Sagit.	10 23	23	6	29	14	d
5	b	Boniface		25 23	26	6	24	15	e	
6	c	3 48	8 12	Capr.	10 23	28	6	20	16	f
7	d	Robert.		25 23	29	6	16	17	g	
8	e	3 47	8 13	Aqua.	10 23	31	6	12	18	a
9	f	Trans. Edm		25 23	31	6	8	19	b	
10	G	Trinity Sund	Pisces	9 23	32	6	4	20	c	
11	a	S. Barnabas		22 23	32	6	00	21	d	
12	b	3 47	8 13	Aries	6 23	31	5	56	22	e
13	c	3 47	8 13		19 23	31	5	52	23	f
14	d	Corpus Chr	Taurus	1 23	30	5	48	24	g	
15	e	Term begins		13 23	28	5	43	25	a	
16	f	3 47	8 13		26 23	26	5	39	26	b
17	G	1 after Trin.	Gem.	8 23	24	5	35	27	c	
18	a	Marc. Marcell		20 23	21	5	31	28	d	
19	b	3 49	8 11	Canc.	1 23	17	5	27	29	e
20	c	Edward		13 23	14	5	22	30	f	
21	d	3 49	8 11		25 23	10	5	18	July	
22	e	S. Alban	Leo	7 23	5	5	14	2	a	
23	f	3 50	8 10		19 23	00	5	10	3	b
24	G	S. John Bapt	Virgo	1 22	55	5	6	4	c	
25	a	3 52	8 8		14 22	49	5	2	5	d
26	b	John & Paul		26 22	43	4	58	6	e	
27	c	3 53	8 7	Libra	9 22	37	4	54	7	f
28	d	3 54	8 6		22 22	30	4	50	8	g
29	e	S. Per. & Paul	Scorp.	5 22	23	4	46	9	a	
30	f	3 56	8 4		19 22	15	4	41	10	b

Complement of the Sun Right Ascension at Midnight.

North Declination decreasing.

North Declination increasing.

Complement of the Sun's Right Ascension at Midnight.

July hath xxxj days.

Full Mo.	4 5 30	N	14 day Satu.	} is with the Moon.
Last Qu.	11 1 46	P.M	7 day Judi.	
New Mo.	19 3 35	P.M	23 day Mar.	
First Qu.	27 10 56	M	20 day Ven.	
			18 day Merc.	

1	a	3 after Trin.	Sagit.	4 22	7	4	37	11	C
2	a	Visita. Mary		18 21	59	4	33	12	d
3	b	3 58 - 8 2	Capric.	3 21	50	4	29	13	e
4	c	Term ends		18 21	41	4	25	14	f
5	d	4 1 7 59	Aqua.	4 21	32	4	21	15	g
6	e	4 2 7 58		19 21	22	4	17	16	a
7	f	4 3 7 57	Pisces	3 21	11	4	13	17	b
8	g	4 after Trin.		18 21	1	4	9	18	c
9	a	4 5 7 55	Aries	2 20	50	4	5	19	d
10	b	7 Brethren		15 20	39	4	1	20	e
11	c	4 7 7 53		28 20	27	3	57	21	f
12	d	4 8 7 52	Taurus	10 20	15	3	53	22	g
13	e	Sun in Leo		23 20	3	3	49	23	a
14	f	4 11 7 49	Gemini	5 19	50	3	45	24	b
15	g	Swythin		16 19	37	3	41	25	c
16	a	Osmond		28 19	24	3	37	26	d
17	b	4 15 7 45	Canc.	10 19	10	3	33	27	e
18	c	4 17 7 43		22 18	56	3	29	28	f
19	d	4 19 7 41	Leo	4 18	42	3	25	29	g
20	e	Margaret		16 18	27	3	21	30	a
21	f	4 21 7 39		28 18	12	3	17	31	b
22	g	6 after Trin.	Virgo	11 17	57	3	13	Aug	c
23	a	Dog days be		23 17	41	3	9	2	d
24	b	4 26 7 34	Libra	6 17	26	3	5	3	e
25	c	6. James Ap		18 17	10	3	2	4	f
26	d	4 30 7 30	Scorpio	2 16	54	2	58	5	g
27	e	7 Sleepers		15 16	37	2	54	6	a
28	f	4 33 7 27		29 16	20	2	50	7	b
29	g	7 after Trin.	Sagit.	13 16	3	2	46	8	c
30	a	4 36 7 24		27 15	46	2	42	9	d
31	b	4 38 7 22	Capr.	12 15	28	2	39	10	e

Complement of the Sun's Right Ascension at Midnight.

North Declination, Decreasing.

August hath xxxj days.

Full Mo. 2d. 9h. 18m	N	11 day Satu.	} is with the Moon.
Last Qu. 10 4 22	M	30 day Judi.	
New Mo. 18 7 5	M	20 day Mars	
First Qu. 25 4 12	P. M	19 day Ven.	
Full Mo. 31 6 25	N	17 day Mer.	

1	e	Lammas day	Capr.	27	15	10	2	35	11	f
2	d	Stephen	Aqua.	12	14	52	2	31	12	g
3	e	4 43 7 17		27	14	34	2	27	13	a
4	f	4 44 7 16	Pisces	12	14	15	2	23	14	b
5	g	8 after Trin.		26	13	56	2	20	15	c
6	a	4 48 7 12	Aries	10	13	37	2	16	16	d
7	b	4 50 7 10		23	13	18	2	12	17	e
8	c	4 52 7 8	Taurus	6	12	59	2	9	18	f
9	d	4 53 7 7		19	12	39	2	5	19	g
10	e	Lawrence	Gemi.	1	12	19	2	2	20	a
11	f	4 57 7 3		13	11	59	1	58	21	b
12	g	9 after Trin.		25	11	39	1	54	22	c
13	a	Sun in Virgo	Cancer	7	11	19	1	50	23	d
14	b	5 2 6 58		19	10	58	1	46	24	e
15	c	Assum. Mar.	Leo	1	10	37	1	43	25	f
16	d	5 7 6 53		13	10	16	1	39	26	g
17	e	5 8 6 52		25	9	55	1	35	27	a
18	f	5 10 6 50	Virgo	7	9	34	1	32	28	b
19	g	10 after Tr.		20	9	12	1	28	29	c
20	a	Lewis	Libra	3	8	51	1	25	30	d
21	b	5 16 6 44		15	8	21	1	21	31	e
22	c	Zacheus		28	8	7	1	17		Sept
23	d	5 20 6 40	Scorp.	12	7	25	1	14		a
24	e	S. Barthol		25	7	43	1	10		b
25	f	5 24 6 36	Sagitt.	9	7	1	1	7		c
26	g	11 after Tr.		23	6	38	1	3		d
27	a	Dog days en	Capr.	7	6	16	0	58		e
28	b	Augustine		21	5	53	0	56		f
29	c	John behead	Aqua.	6	5	30	0	52		g
30	d	5 33 6 27		21	5	48	0	49		a
31	e	5 35 6 25	Pisces	6	4	45	0	45		b

Complement of the Suns Right Ascension at Midnight.

September hath xxx days.

	d.	h.	m.			
Last Qu.	8	9	43	{	7 day Satu.	is with the Moon.
New Mo.	16	9	18		27 day Judi.	
First Qu.	22	12	00		18 day Mar.	
Full Mo.	30	8	44	{	18 day Ven.	
					18 day Mer.	

1	f	5 37	6 23	Pisces	20	4	22 00	41	11	b
2	b	London burn		Aries	4	3	58 00	37	12	c
3	a	Anno 1666			18	3	36 00	34	13	d
4	b	5 43	6 17	Taurus	2	3	12 00	30	14	e
5	c	5 45	6 15		15	2	49 00	27	15	f
6	d	5 47	6 13		27	2	26 00	23	16	g
7	e	Nat. Eliz		Gem.	9	2	2 00	19	17	a
8	f	Nat. Mary V			21	1	39 00	16	18	b
9	g	13 after Trin		Cancer	3	1	16 00	12	19	c
10	a	Silvius			15	0	52 00	9	20	d
11	b	5 56	6 4		27	0	* 29 00	5	21	e
12	c	5 59	6 1	Leo	9	0	5 00	1	22	f
13	d	Sun in Libra			21	S	18 11	58	23	g
14	e	Equal d. & n		Virgo	3	0	42 11	54	24	a
15	f	6 5	5 55		16	1	5 11	51	25	b
16	g	14 after Trin			29	1	29 11	47	26	c
17	a	Lambert		Libra	12	1	52 11	43	27	d
18	b	6 10	5 50		25	2	16 11	40	28	e
19	c	6 12	5 48	Scorp.	8	2	39 11	36	29	f
20	d	6 13	5 47		22	3	3 11	33	30	g
21	e	S. Matthew		Sagit.	6	3	26 11	29	31	a
22	f	6 18	5 42		10	3	49 11	25	2	b
23	g	15 after Trin		Capr.	4	4	13 11	22	3	c
24	a	6 22	5 38		18	4	36 11	18	4	d
25	b	6 24	5 36	Aquar.	2	4	59 11	15	5	e
26	c	Cyprian			16	5	23 11	12	6	f
27	d	6 28	5 32	Pisces	1	5	46 11	7	7	g
28	e	6 30	5 30		15	6	9 11	3	8	a
29	f	S. Mich. Arc			29	6	32 10	59	9	b
30	g	16 after Trin		Aries	13	6	54 10	56	10	c

North Decl. decreasing.
South Declination, increasing.
Complement of the Suns Right Ascension at Midnight.

October hath xxxj days.

d. h. m. 4 day Sat.
 Last Qu. 8. 4 37 M 23 day Jup. is with
 New Mo. 16 11 2 A.M 17 day Mar. the
 First Qu. 23 5 51 M 18 day Ven. Moon.
 Full Mo. 30 10 49 A.M 17 day Mer.

1	a	Remigius	Aries	26	7	17	10	52	11	d
2	b	6 38	5 27	Taurus	9	7	40	10	48	e
3	c	6 40	5 20		22	8	3	10	45	f
4	d	6 42	5 18	Gemini	5	8	25	10	41	g
5	e	6 44	5 16		17	8	48	10	38	a
6	f	Faith V.			29	9	10	10	34	b
7	g	17 after Trin	Cancer	11	9	32	10	30	17	c
8	a	6 50	5 10		23	9	54	10	26	d
9	b	Dionysius	Leo	5	10	16	10	22	19	e
10	c	6 54	5 6		17	10	37	10	19	f
11	d	6 56	5 4		29	10	59	10	15	g
12	e	6 58	5 2	Virgo	11	11	20	10	11	a
13	f	Sun in Scor		24	11	41	10	7	23	b
14	g	18 after Trin	Libra	7	12	2	10	3	24	c
15	a	7 3	4 57		20	12	23	10	0	d
16	b	7 5	4 55	Scorp.	4	12	44	9	56	e
17	c	Etheldred		18	13	4	9	52	27	f
18	d	S. Luke Ev	Sagit.	2	13	24	9	48	28	g
19	e	7 11	4 49		16	13	44	9	44	a
20	f	7 13	4 47	Capri.	00	14	4	9	40	b
21	g	19 after Trin		14	14	24	9	36	31	c
22	a	Mary Salom		29	14	43	9	32		d
23	b	Term begins	Aqua.	13	15	2	9	28		e
24	c	7 20	4 40		27	15	21	9	24	f
25	d	Crispin & C	Pisces	11	15	40	9	21		g
26	e	7 23	4 37		25	15	58	9	17	a
27	f	7 25	4 35	Aries	8	16	16	9	13	b
28	g	S. Sim. & Ju		22	16	34	9	9		c
29	a	Narcissus	Taurus	5	16	51	9	5		d
30	b	7 30	4 39		18	17	00	9	1	e
31	c	Quintine	Gem.	1	17	25	8	57	10	f

Complement of the Suns Right Ascension at Midnight.
 South Declination, increasing.

November hath xxx days.

	d.	h.	m.			
Last Qu.	7	12	23	N	28 day	Saru.
New Mo.	14	11	5	N	20 day	Jup.
First Qu.	21	2	12	P.M	15 day	Mars.
Full Mo.	29	1	44	M	17 day	Ven.
					13 day	Mer.

} is with
the
Moon.

1	d	All Saints	Gemin.	13	17	42	8	53	11	a
2	f	All Souls		25	17	58	8	49	12	b
3	f	7 37 4 23	Cancer	7	18	14	8	45	13	b
4	e	21 after Trin		19	18	30	8	41	14	c
5	a	Powder plot	Leo	1	18	45	8	37	15	d
6	b	Leonard		13	19	4	8	33	16	e
7	e	7 44 4 16		25	19	15	8	29	17	f
8	d	Nat. Luther	Virgo	7	19	29	8	24	18	g
9	e	7 47 4 13		19	19	43	8	20	19	h
10	f	7 48 4 12	Libra	2	19	57	8	15	20	b
11	e	Sun in Sagit		15	20	10	8	11	21	c
12	b	7 50 4 10		28	20	23	8	7	22	d
13	b	Brice B. C.	Scorp.	12	20	35	8	2	23	e
14	c	7 53 4 7		26	20	48	7	58	24	f
15	d	7 55 4 5	Sagit.	10	20	59	7	53	25	g
16	e	7 56 4 4		25	21	10	7	49	26	h
17	f	Hugh B. E.	Capr.	10	21	21	7	45	27	b
18	e	23 after Trin		25	21	31	7	41	28	c
19	a	Elizabeth	Aqua.	9	21	42	7	37	29	d
20	b	8 00 4 00		24	21	52	7	32	30	e
21	c	8 1 3 59	Pices	8	22	1	7	28		Dec
22	d	8 2 3 58		21	22	11	7	24	2	g
23	e	Clement	Aries	5	22	18	7	20	3	a
24	f	Chryfogon		18	22	26	7	15	4	b
25	e	24 after Tri.	Taurus	12	22	34	7	11	5	c
26	a	8 6 3 54		14	22	41	7	7	6	d
27	b	8 7 3 55		27	22	47	7	3	7	e
28	c	Term ends	Gem.	9	22	54	6	58	8	f
29	d	8 9 3 51		21	22	49	6	54	9	g
30	e	S. And. Ap	Cancer	3	23	5	6	49	10	a

December hath xxxj days.

	d.	h.	m.			
Last Qu.	7	4	02	M	25 day Satu.	} is with the Moon.
New Mo.	14	10	08	M	17 day Jup.	
First Qu.	21	1	23	M	14 day Mars	
Full Mo.	28	10	56	N	17 day Ve.	
					14 day Mer.	

1	a	8 10	3 30	Cancer	15 23	10	6	45	40	b
2	b	8 11	3 49	Advent Sun	27 23	14	6	39	34	c
3	c	8 12	3 48	Leo	9 23	18	6	35	13	d
4	d	8 13	3 47	Virgo	21 23	21	6	31	14	e
5	e	8 13	3 47	Nicholas	3 23	24	6	26	15	f
6	f	8 13	3 47	Libra	15 23	27	6	22	16	g
7	g	8 13	3 47	Cont. Mary	27 23	29	6	18	17	h
8	h	8 13	3 47	2. Sun. in Ad.	10 23	30	6	13	18	i
9	i	8 13	3 47	Scorpio	23 23	31	6	9	19	j
10	j	8 13	3 47	Sun in Capr	6 23	32	6	4	20	k
11	k	8 13	3 47	Shortest day	20 23	32	6	00	21	l
12	l	8 13	3 47	Sagit.	4 23	32	5	55	22	m
13	m	8 13	3 47	Lucie Virg	19 23	31	5	51	23	n
14	n	8 13	3 47	Capr.	4 23	29	5	46	24	o
15	o	8 13	3 47	3. Sun in Ad. Aqua	19 23	28	5	41	25	p
16	p	8 13	3 47	Lazarus	4 23	26	5	36	26	q
17	q	8 12	3 48	Pisces	19 23	23	5	32	27	r
18	r	8 12	3 48	Aries	4 23	19	5	27	28	s
19	s	8 11	3 49	Thom. ap	18 23	16	5	23	29	t
20	t	8 11	3 49	30 Martyrs	22 23	11	5	19	30	u
21	u	8 11	3 49	4. Sun. in Ad.	15 23	7	5	15	31	v
22	v	8 11	3 49	Virgins	28 23	00	5	12	07	w
23	w	8 11	3 49	Christmas d	11 22	56	5	6	08	x
24	x	8 11	3 49	St. Stephen	24 22	50	5	2	09	y
25	y	8 11	3 49	St. John Evan	6 22	48	4	57	10	z
26	z	8 11	3 49	Innocent	18 22	37	4	53	11	a
27	a	8 11	3 49	Silvester	00 22	30	4	49	12	b
28	b	8 11	3 49		12 22	22	4	44	13	c
29	c	8 11	3 49		24 22	13	4	40	14	d
30	d	8 11	3 49		6 22	5	4	35	15	e
31	e	8 11	3 49		18 21	56	4	30	16	f

Complement of the Sun's Right Ascension at Midnight.

South Declination, increasing.

South Declination, decreasing.

1 6 7 7.

THE

SECOND PART

OF THE

SEAMAN'S ALMANACK.

IN the *Almanack* for the Year, 1675. I gave you a Catalogue of the Longitude and Latitude of all the principal Harbours, Headlands, and Islands, upon the Coasts of England, Scotland, and Ireland, their Longitude being accounted from the Meridian of London, either Eastward or Westward.

And in the last years *Almanack* I gave you the like Tables of the Latitudes and Longitudes of the harbours, headlands, &c. upon the Sound, the Coasts of Holland, Flanders, and the Island of Ireland. And in the same last years *Almanack*, I also gave you a Table of the Suns (or any known Stars) amplitude of rising or setting from the East or West, towards the North, or South, from 31 to 60 degrees of Latitude, and the several uses of the same Table, in finding thereby the Latitude you are in, and also the Variation of the Compass: The which Table I shall this year continue from the Equinoctial to 31 deg. of Latitude, where the other Table began, but for the uses of it aforesaid, I shall defer you to those in the last years *Almanack* and this year. (also) I shall continue the forementioned Table of Latitudes and Longitudes, giving you a Catalogue of the Sea-Coasts on the main Continent, and Islands within the Straits: with other things necessary for Seamen's use.

The Seamans Almanack, 1677.

A Catalogue of the Sea-coasts on the Main Continent and Islands within the Straits.

<i>Names of places.</i>	<i>Latitude D. M.</i>	<i>Longitude D. M.</i>
Gibltore	36 40	3 18
Malagoe	36 45	2 17
Valis	36 49	1 51
Cape Degar	36 47	0 8
Cape Paul	37 28	1 47
Allagant	38 20	1 40
Cape Martin	38 46	2 56
Cape Palomallo	40 10	2 15
Cape Degafrito	41 41	5 94
Marstalia	43 12	7 20
Tallone	43 0	8 40
Cape Larei	42 58	9 14
Cape Malle	43 51	10 13
Leagneorne	43 28	13 39
Ciciracha	41 46	15 0
Rome	41 50	15 45
Napolis	41 8	17 37
Sallarno	40 51	18 8
Pollicastro	40 8	18 38
Cape Sparraventa	37 46	18 52
Cape Collom	38 50	20 16
Gallippoli	40 8	21 40
Cape St. Maiia	39 52	22 29
Angollo	41 31	21 38
Ancana	43 25	19 5
Gravocha	44 19	16 2
Gorre	44 37	16 11
Venetia	45 37	17 21
Cape Fiftia	44 40	18 46
Sagna	44 42	20 25
Zaro	44 5	21 53

West

North Latitude.

East Longitude.

Salconico

The Seaman's Almanack 1877.

Names of the Places.

Latitude

Longitude

D. M.

D. M.

Names of the Places.	Latitude	Longitude
Saleonico	44 1	22 0
Cape Gasta	43 27	21 24
Travor	43 30	22 13
Stanlio	42 57	22 47
Ragusa	42 29	23 33
Cottaro	42 21	24 23
Antavara	41 49	25 30
Hirasia	40 57	25 14
Cape Ringa	40 19	24 14
Drugromastra	38 38	25 18
Castledornis	37 45	25 08
Cape Marapan	36 28	25 28
Cape Sille	37 15	26 28
Cape Collo	37 40	27 11
Cape St. George	39 28	26 46
Cape Pimra	40 26	26 10
Cape Degriffa	40 12	31 47
Gallipollo	40 20	32 35
Constantinople	40 56	35 9
Incommodio	40 26	35 15
Land Miri	39 12	31 41
Cape Babarnon	37 58	30 58
Cape Decoxman	36 16	31 20
Cape Seridioni	35 35	36 0
Cape Pollopollo	35 35	38 37
Antiochia	34 54	41 2
Joppa	31 42	38 15
Cairo	30 35	36 20
Mitchellat	30 30	36 31
Alexandria	30 40	36 4
Cape Roattini	32 18	26 40
Cape Ruffutta	32 58	24 2
Cape Dessolli	31 1	20 25
Cape Misaratca	32 18	18 36
Chercune	34 56	13 14
Britto	35 23	13 17

North Latitude.

Longitude.

The Sea-man's Almanack, 1777.

Names of the Places.		Latitude.		Longitude.	
		D.	M.	D.	M.
Agia		36	2	13	43
Cape Bonn		37	5	13	47
Tunis		36	50	12	0
Bonifal		37	30	11	10
Bona		37	19	11	30
Stora		37	9	10	20
Cello		37	9	9	10
Gigaris		37	3	9	2
Glen		36	50	8	6
Ragira		36	50	6	20
Tedallia		36	48	6	1
Arger		36	40	5	30
Sally		36	40	4	43
Tanis		36	30	3	54
Oren		35	46	2	35
Ballis		34	57	1	36
Wadalla		34	57	0	53
Tangere		35	36	3	50

North Latitude.

The Seaman's Almanack, 1877.

Islands within the Straights.

Names of the Places.	Latitude		Longitude	
	D.	M.	D.	M.
Formentera	38	44	4	59
Eivissa	39	5	4	53
Collumbrata	39	50	3	20
Cabrera	39	7	5	42
Mayorka	39	38	5	42
Minorca	39	55	6	54
Gallara	37	57	11	4
Sarpentara	39	0	11	54
Salmade Folle	39	11	10	41
Island St. Pedra	39	20	10	59
S. end of Sardinia	38	56	11	13
Middle of Sardinia	40	6	11	30
N. end of Sardinia	41	10	11	1
Azanera	41	8	10	58
Taloro	40	56	11	15
S. end of Corsica	41	20	12	27
Middle of Corsica	42	5	12	41
N. end of Corsica	42	55	12	5
Gargona	43	20	13	4
Capreca	42	48	12	52
Lilbe	42	31	13	12
Planosa	42	7	13	9
Crista	41	55	13	27
Gigio	41	52	14	15
Ginnauce	41	59	14	24
Palmarola	40	50	14	35
Ponusa	40	40	15	8
Stia	40	46	16	12
Foldemalsina	38	20	18	5
Sromballe	39	8	17	35
Volcana	38	48	19	6
Lipari	38	40	27	3
Lisallin	38	34	19	8
Fallicur	38	43	16	37

North Latitude.

West Longitude.

Names of the Places		Latitude	Longitude
		D.	M.
Alghero	1	38 45	18 23
Vhira	1	38 30	15 34
W. End of Sicilia	++ 8E	37 52	14 41
Middle of Sicilia	7 0E	37 41	16 41
E. End of Sicilia	02 0E	37 7	18 05
Misina	7 0E	38 7	17 57
Misinao	02 0E	37 52	14 38
Kanibee	02 0E	37 10	13 10
Pantalaria	1	36 53	14 11
Linosa	II	36 20	14 41
Lampadusa	II	35 58	14 35
Samara	01	35 46	14 15
Goza	II	35 0	15 27
Comiso	II	36 15	16 0
Malta	I	36 0	16 30
Pipes	01	35 52	16 51
Sausage	II	44 20	19 38
Illo de Goffo	01	44 0	20 12
Pana	II	43 14	20 24
St. Andros	02	43 7	20 34
Buio	02	43 2	20 54
Lila	01	43 0	21 9
Catla	I	42 44	21 34
Catfalla	I	42 40	21 39
Augusta	I	42 36	22 59
Corfalla	I	42 53	22 14
Mallia	I	42 37	21 39
Pallagosa	I	42 17	20 13
Trinica	I	41 50	20 29
Pianassa	I	41 52	23 44
Cesseno	I	40 22	23 50
Faimo	I	39 44	24 55
Corfu	I	39 25	24 2
Paxa	I	38 49	24 6
Cape Sidro	I	38 15	24 9
Zant	I	37 37	24 14

North Latitude.
East Longitude.

SIRO

The Sea-man's Almanack, 1677.

Names of the Places.	Latitude.		Longitude.	
	D.	M.	D.	M.
Stronti	37	10	24	19
Sapientia	36	47	14	52
Millo	36	40	27	45
Foriconari	36	59	127	13
Cardinals Hats	37	25	127	7
Palla	36	52	16	45
Caravi	36	40	26	42
Niza	37	2	19	27
Levasra	36	38	29	30
Stampalia	36	11	29	34
Langa	36	33	30	38
Caros	35	33	30	13
Scarpanta	35	10	30	40
W. end of Candia	35	15	27	1
Middle of Candia	35	8	28	31
East end of Candia	34	4	30	8
Gozb	34	37	27	15
Sivia	36	5	31	03
Rhodes	35	40	32	18
W. end of Cyprus	34	22	36	23
Middle of Cyprus	34	18	37	49
East end of Cyprus	34	48	38	24
The				
B 4				

The Sun, (or any known Stars) Amplitude of
Rising or Setting, from the East, or West,
towards the North or South.

From the Equinoctial to 6 Deg. of Latitude.

Degrees of Latitude.

	1	2	3	4	5	6
	D.M.	D.M.	D.M.	D.M.	D.M.	D.M.
1	1 0	1 0	1 0	1 0	1 0	1 0
2	2 0	2 0	2 0	2 0	2 0	2 0
3	3 0	3 0	3 0	3 0	3 0	3 1
4	4 0	4 0	4 0	4 0	4 1	4 1
5	5 0	5 0	5 0	5 0	5 1	5 1
6	6 0	6 0	6 0	6 1	6 1	6 2
7	7 0	7 0	7 0	7 1	7 1	7 2
8	8 0	8 0	8 1	8 1	8 2	8 2
9	9 0	9 0	9 1	9 1	9 2	9 2
10	10 0	10 0	10 1	10 1	10 2	10 3
11	11 0	11 0	11 1	11 1	11 2	11 3
12	12 0	12 0	12 1	12 1	12 3	12 4
13	13 0	13 0	13 1	13 1	13 3	13 4
14	14 0	14 0	14 1	14 2	14 3	14 4
15	15 0	15 0	15 1	15 2	15 3	15 5
16	16 0	16 1	16 1	16 2	16 3	16 5
17	17 0	17 1	17 1	17 2	17 4	17 5
18	18 0	18 1	18 1	18 2	18 4	18 6
19	19 0	19 1	19 1	19 2	19 4	19 6
20	20 0	20 1	20 2	20 3	20 5	20 6
21	21 0	21 1	21 2	21 3	21 5	21 7
22	22 0	22 1	22 2	22 3	22 6	22 7
23	23 0	23 1	23 2	23 3	23 6	23 8
23 31	23 21	23 32	23 33	23 35	23 37	23 39

Degrees of the Sun Declination.

The

The Sun (or any known Stars) Amplitude at Rising or Setting, from the East or West, towards the North or South.

From 6 to 18 Deg. of Latitude.

Degrees of Latitude.

	7		8		9		10		11		12	
	D.M.		D.M.		D.M.		D.M.		D.M.		D.M.	
1	1	0	1	0	1	0	1	1	1	1	1	1
2	2	1	2	1	2	1	2	2	2	2	2	2
3	3	1	3	1	3	1	3	3	3	3	3	3
4	4	2	4	2	4	2	4	4	4	4	4	4
5	5	2	5	2	5	3	5	5	5	5	5	5
6	6	2	6	3	6	4	6	6	6	6	6	8
7	7	3	7	4	7	5	7	7	7	8	7	9
8	8	3	8	4	8	6	8	8	8	9	8	11
9	9	4	9	5	9	6	9	9	9	10	9	12
10	10	4	10	6	10	7	10	10	10	11	10	13
11	11	5	11	6	11	8	11	11	11	12	11	15
12	12	5	12	7	12	9	12	12	12	13	12	16
13	13	6	13	8	13	9	13	13	13	15	13	17
14	14	6	14	8	14	10	14	14	14	16	14	19
15	15	7	15	9	15	11	15	15	15	17	15	20
16	16	7	16	10	16	12	16	16	16	19	16	22
17	17	8	17	10	17	13	17	17	17	20	17	23
18	18	8	18	11	18	14	18	18	18	21	18	25
19	19	9	19	12	19	15	19	19	19	22	19	26
20	20	9	20	12	20	16	20	20	20	24	20	28
21	21	10	21	13	21	17	21	21	21	25	21	29
22	22	10	22	13	22	18	22	22	22	27	22	31
23	23	11	23	14	23	19	23	23	23	28	23	33
24	24	11	24	14	24	20	24	24	24	29	24	35

The

The Sun (or any known Stars) Amplitude or Raising or Setting, from the East or West, towards the North or South.

From 12 to 18 Deg. of Latitude.

Degrees of Latitude

M.C.	12		14		15		16		17		18	
	D.M.		D.M.		D.M.		D.M.		D.M.		D.M.	
1	1	3	1	2	1	2	1	2	1	2	1	3
2	2	3	2	4	2	4	2	4	2	5	2	6
3	3	5	3	5	3	6	3	7	3	8	3	9
4	4	6	4	7	4	8	4	10	4	11	4	12
5	5	8	5	9	5	10	5	12	5	13	5	15
6	6	10	6	11	6	13	6	15	6	16	6	19
7	7	11	7	13	7	15	7	17	7	19	7	22
8	8	13	8	15	8	17	8	19	8	22	8	25
9	9	14	9	17	9	19	9	22	9	25	9	28
10	10	16	10	19	10	21	10	24	10	28	10	31
11	11	17	11	20	11	23	11	27	11	30	11	34
12	12	19	12	22	12	25	12	29	12	33	12	38
13	13	20	13	24	13	27	13	32	13	36	13	41
14	14	22	14	26	14	30	14	34	14	39	14	44
15	15	24	15	28	15	32	15	37	15	42	15	47
16	16	26	16	30	16	35	16	40	16	45	16	51
17	17	28	17	32	17	37	17	42	17	48	17	54
18	18	30	18	34	18	39	18	45	18	51	18	58
19	19	31	19	36	19	41	19	48	19	54	20	1
20	20	33	20	38	20	43	20	51	20	57	21	4
21	21	35	21	40	21	45	21	53	22	16	22	8
22	22	37	22	43	22	49	22	56	23	4	23	12
23	23	39	23	45	23	51	23	59	24	19	24	16
24	24	41	24	47	24	53	24	1	25	24	24	20

The

The Sun (or any known Stars) Amplitude of Rising or Setting, from the East or West, towards the North or South.

From 18 to 24 Deg. of Latitude.

Degrees of Latitude.

	19	20	21	22	23	24
M. D.M. D.M. D.M. D.M. D.M. D.M.						
1	1 3	1 4	1 4	1 5	1 5	1 6
2	2 7	2 8	2 18	2 9	2 10	2 12
3	3 10	3 12	3 13	3 14	3 15	3 17
4	4 14	4 16	4 17	4 19	4 21	4 23
5	5 17	5 20	5 21	5 23	5 26	5 28
6	6 21	6 23	6 26	6 28	6 32	6 37
7	7 24	7 27	7 30	7 33	7 37	7 40
8	8 28	8 31	8 34	8 38	8 42	8 46
9	9 31	9 39	9 39	9 43	9 47	9 51
10	10 35	10 39	10 43	10 48	10 52	10 57
11	11 38	11 43	11 48	11 53	11 57	12 3
12	12 42	12 47	12 52	12 58	13 3	13 9
13	13 46	13 51	13 57	14 2	14 8	14 15
14	14 50	14 55	15 1	15 6	15 14	15 21
15	15 53	16 00	16 7	16 13	16 20	16 27
16	16 57	17 4	17 11	17 18	17 26	17 34
17	17 10	18 8	18 15	18 23	18 31	18 40
18	18 15	19 12	19 20	19 28	19 37	19 46
19	19 20	20 16	20 24	20 33	20 43	20 52
20	20 25	21 21	21 29	21 39	21 49	21 59
21	21 30	22 24	22 34	22 44	22 55	23 8
22	22 35	23 23	23 34	23 50	23 1	24 12
23	23 40	24 24	24 45	25 5	25 17	25 29
24	24 45	25 25	25 18	25 29	25 41	25 54

The

The Sun (or any known Star) Amplitude of Rising or Setting, from the East or West, towards the North or South.

From 24 to 30 Deg. of Latitude.

Degrees of Latitude.

	24	25	26	27	28	29	30
	D.M.	D.M.	D.M.	D.M.	D.M.	D.M.	D.M.
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30

Degrees of the Sun's Declination.

Con-

CONCERNING the Use that Seamen may make of these two foregoing Useful and Necessary Tables, I have declared at large in the two last years Almanacks, and therefore shall say nothing thereof at this time: I have also in the two foresaid Books shewed several ways how to find the Latitude both by the Sun and fix'd Stars, as also by the Pole, Star and Guards; There is also shewed how to find the quantity of the Variation of the Compass, and which way it varieth, whither Eastward or Westward from the true Meridian; I will now present you with

A T A B L E;

Whereby you may know the true Hour and Minute of the Suns Rising and Setting at any time of the Year, and in any part of the Habitable World.

The Table and the Use of it follows.

Enter here for to find Sun Setting.			Degrees of North Latitude.							
			5	10	15	20	25	30	35	40
			H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.
October	11	11	5 51	5 43	5 33	5 24	5 13	5 02	4 49	4 34
	29	5	5 51	5 42	5 33	5 23	5 13	5 03	4 50	4 35
	23	19	5 52	5 43	5 33	5 25	5 14	5 04	4 51	4 36
	28	13	5 52	5 43	5 34	5 29	5 16	5 06	4 53	4 40
November	3	17	5 53	5 44	5 35	5 27	5 18	5 08	4 54	4 41
	9	11	5 53	5 45	5 37	5 29	5 21	5 11	5 00	4 48
	15	6	5 54	5 46	5 39	5 31	5 23	5 15	5 04	4 52
	21	31	5 54	5 48	5 41	5 33	5 26	5 19	5 10	5 01
December	27	24	5 55	5 49	5 43	5 35	5 30	5 23	5 15	5 06
	2	10	5 56	5 50	5 44	5 37	5 34	5 28	5 21	5 13
	8	13	5 56	5 52	5 47	5 43	5 38	5 33	5 28	5 21
	14	7	5 57	5 53	5 49	5 45	5 41	5 38	5 34	5 28
January	20	20	5 58	5 55	5 52	5 49	5 45	5 41	5 37	5 33
	26	24	5 58	5 57	5 55	5 52	5 51	5 49	5 47	5 45
	31	18	5 59	5 58	5 57	5 56	5 55	5 54	5 53	5 52
	10	12	6 00	6 00	6 00	6 00	6 00	6 00	6 00	6 00
February	16	6	6 16	6 16	6 16	6 16	6 16	6 16	6 16	6 16
	22	31	6 26	6 26	6 26	6 26	6 26	6 26	6 26	6 26
	28	25	6 26	6 26	6 26	6 26	6 26	6 26	6 26	6 26
	3	19	6 36	6 36	6 36	6 36	6 36	6 36	6 36	6 36
March	9	13	6 46	6 46	6 46	6 46	6 46	6 46	6 46	6 46
	15	6	6 56	6 56	6 56	6 56	6 56	6 56	6 56	6 56
	22	31	6 55	6 55	6 55	6 55	6 55	6 55	6 55	6 55
	28	25	6 66	6 66	6 66	6 66	6 66	6 66	6 66	6 66
April	4	19	6 66	6 66	6 66	6 66	6 66	6 66	6 66	6 66
	10	12	6 76	6 76	6 76	6 76	6 76	6 76	6 76	6 76
	17	6	6 76	6 76	6 76	6 76	6 76	6 76	6 76	6 76
	23	30	6 86	6 86	6 86	6 86	6 86	6 86	6 86	6 86
May	29	23	6 86	6 86	6 86	6 86	6 86	6 86	6 86	6 86
	4	7	6 96	6 96	6 96	6 96	6 96	6 96	6 96	6 96
	11	11	6 96	6 96	6 96	6 96	6 96	6 96	6 96	6 96
	18	11	6 96	6 96	6 96	6 96	6 96	6 96	6 96	6 96
Enter here for Sun Rise.			5	10	15	20	25	30	35	40
			Degrees of South Latitude.							

Degrees of North Latitude.

Enter here
to find the
Suns rising.

44	47	50	52	54	56	58	60
H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.
4 21	4 9	3 55	3 45	3 33	3 20	3 4	2 44
4 21	4 10	3 56	3 46	3 34	3 21	3 5	2 46
4 23	4 12	3 59	3 49	3 37	3 24	3 9	2 51
4 27	4 16	4 3	3 53	3 43	3 30	3 14	2 59
4 31	4 21	4 9	4 0	3 50	3 38	3 25	3 9
4 37	4 27	4 16	4 8	3 58	3 48	3 33	3 22
4 43	4 34	4 24	4 19	4 8	3 59	3 48	3 35
4 50	4 42	4 34	4 26	4 19	4 11	4 1	3 50
4 58	4 51	4 43	4 37	4 30	4 23	4 15	4 5
5 6	5 0	4 53	4 48	4 43	4 36	4 25	4 21
5 15	5 10	5 4	5 0	4 55	4 50	4 44	4 37
5 24	5 19	5 15	5 11	5 8	4 54	4 59	4 54
5 35	5 29	5 26	5 23	5 21	5 18	5 14	5 16
5 42	5 40	5 37	5 36	5 34	5 33	5 29	5 27
5 51	5 50	5 49	5 48	5 47	5 46	5 49	5 43
6 06	6 06	6 06	6 06	6 06	6 06	6 06	6 06
6 9	6 13	6 11	6 12	6 13	6 14	6 15	6 17
6 18	6 20	6 23	6 24	6 26	6 28	6 31	6 43
6 27	6 31	6 34	6 37	6 39	6 42	6 46	6 50
6 35	6 41	6 45	6 49	6 52	6 56	7 1	7 6
6 45	6 50	6 56	7 0	7 5	7 10	7 16	7 23
6 54	7 0	7 7	7 12	7 17	7 24	7 31	7 39
7 2	7 9	7 17	7 23	7 30	7 37	7 45	7 55
7 10	7 14	7 27	7 34	7 41	7 49	7 59	8 10
7 17	7 26	7 36	7 43	7 52	8 1	8 12	8 25
7 23	7 33	7 44	7 52	8 1	8 11	8 24	8 38
7 29	7 39	7 51	8 0	8 10	8 21	8 35	8 51
7 33	7 44	7 57	8 7	8 17	8 30	8 44	9 1
7 37	7 48	8 1	8 11	8 23	8 36	8 51	9 9
7 39	7 50	8 4	8 14	8 26	8 39	8 55	9 14
7 39	7 51	8 5	8 15	8 27	8 40	8 56	9 16

11 11	11		
5 17	17		
29 23	23		
23 30	30		
17 6	6		
10 52	52		
4 19	19	July	
28 25	25		
22 31	31		
15 6	6		
9 13	13		
3 19	19	August	
28 25	25		
22 31	31		
16 6	6		
10 12	12		
4 18	18	Septem.	
28 25	25		
20 31	31		
14 7	7		
8 13	13		
2 19	19	October	
22 25	25		
21 31	31		
15 6	6		
9 11	11		
3 17	17	Novemb.	
28 25	25		
21 31	31		
17 5	5		
11 11	11	Dec.	

Degrees of South Latitude.

Enter here
for ☉ set.

44	47	50	52	54	56	58	60
----	----	----	----	----	----	----	----

The foregoing Table Explained.

IN the two first Columns of the Left hand Page, are placed the Months of the year, one half year being to be read downwards, the other upwards; every sixth day of each month being expressed in Figures, and the name of the month to which they belong is expressed at Large. At the top of this Column is written (*Enter here to find the Sun Setting*) and at the bottom of the same is written (*Enter here for Sun rising*) the meaning whereof is this: if you be in North Latitude, and would know the time of the suns setting, you must find your day of the Month in this Column: But if in North Latitude you would find the time of the suns rising, you must then find your day of the month in the last Column of the Table towards the right hand, which hath the like use for finding the suns rising, as the first towards the left hand hath for the suns setting in North Latitude. — But if you be in South Latitude, then for sun rising you must find the day of the Month in the first Column, and for Sun setting you must find the day in the last Column, just contrary to what you did in North Latitude.

At the top of the Table you have the several degrees of North Latitude from the Equinoctial to 60 degrees, according as they are expressed in figures, viz. 5. 10. 15. 20. 25. 30. 35. 40. 44. 47. 50. 52. 54. 56. 58. 60. Having North Latitude written over head of these figures: and as these figures stand at the top, for North Latitude, so do the like figures stand at the foot, or bottom of the Table, for South Latitude, and in the several Columns under each of these degrees of Latitude, stand the hours and minutes of the time of the suns rising, or setting in these Latitudes, and that against each respective day of the year against which they stand. Let this suffice for the Explanation: Now shall follow

The Use of the Table.

THe use of the Table is easie, for if you find the day of the Month, (or the nearest thereunto) in the first or last column of the table (according as you would know either the time of rising or setting) just against your day, and under the degrees of Latitude (or the nearest degree thereunto) you shall have the hour and minute of the Sun's Rising or setting, according to the tenor of the Question.

Example 1. Upon the 6 of November, being in the Latitude of 30 deg. North, I desire to know at what hour and minute the sun then sets.

Because it is for Sun setting, I find the day of the month, November 6, in the first column, then casting my eye along that line, till I come under 30 deg. of North Latitude in the head of the Table, just against November 6, and under 30, I find 5, 15, which shews, that upon the 6 of November, in the Latitude of 30 deg. the Sun sets at 5 a clock and 15 minutes after, which is a quarter of an hour.

But if upon the same day of November 6, and in the same North Latitude of 30 deg. you would know the time of the Sun's rising, you must then find the 6 of November in the last column of the Table, and casting your eye along that line towards your left hand, till you come just under 30 deg. of North Latitude, you shall there find 6, 45, which tells you, that in 30 deg. of North Latitude, upon the 6 of November, the Sun rises at 6 a clock and 45 min. after, which is 3 quarters of an hour after 6, and the like must be done for any other Latitude, and for any other time of the year.

But if you had been in 30 deg. of South Latitude, and would have known the time of Sun-setting on the 6 of November, you must then have found the day in the last column, and the Latitude in the bottom, and in the angle of meeting you should find 6, 45 for the setting, as above you did for the rising. And for the rising in South Latitude, if you find November 6 in the first column, and get the same latitude in the foot of the Table, in the common an-

gle of meeting you shall find 5, 15 for the time of Sun-
setting, as above in (North latitude) you did for the
suns setting. For

Note, that at whatsoever time of the year, and in
whatsoever degree of North Latitude the Sun doth
rise, at the same time in the same degree of South
latitude doth the sun set the same day, Et Contra.

Example 2. Upon the 9 of April, being in the latitude of 52
deg. North, I would know at what time the sun rises.

Find the 9 of April in the last column, and against that day,
and under 25 deg. of North latitude, I find 5 0 which shews,
that upon the 9 of April in N. latitude 52 deg. the sun rises
exactly at 5 a clock. — And for the setting that day, find
April 9 in the first column, and just against it under 52, you
shall find 7 0, which shews that that day the sun rises just
at 7 in the morning.

Example 3. upon the 20 of October in the latitude of 56
deg. North, I would find the time of the suns rising.

I look for the 20 of October in the last column, but I find
the 19 day, which is the next nearest unto it, against which,
and under 56 deg. of North latitude I find 7 24, and against
the 25 day, I find 7 37, the difference between these two is
13 min. in 6 days time, which is near 2 min. in one day, so
20 days being one day more then 19, add 2 min. to the 7 24
min. which stood against the 19 day, and the sun will be 7
hours and 26 min. at which time the Sun will rise upon the
20 day of October, in 56 of North latitude, and by the same
reason you shall find that the same day the Sun will set at 4
hours and 34 min.

Example 4. upon the 6 of August, being in the latitude of
57 deg. North, I would know the time of the Suns rising.

I find the 6 of August in the last column, but I cannot find
the Latitude of 57 in the head, but I find h. m.
the latitude of { 56 deg. } under which, and 4 36
and { 58 deg. } against August 6 { 4 25
stands

The difference is 0 11 m.

The half whereof, namely 5 min. and an half being added

to 4 h. 25 min. or subtracted from 4 hours 36 min. will leave 4 hours 30 min. and an half, for the true time of the sun rising on the 6 of August in the Latitude of 57 deg. North—And by the same reason you may find that the Sun in the same Latitude, and upon the same day, will set at 7 ho. 10 min. and an half.

I will add one Example more, to make this Table plain and easie, and that shall be, when neither the exact latitude nor the exact day of the Month can be found in the Table.

Example 5. upon the 24 of January, being in the latitude of 40 deg. of North, and would know the time of the suns setting.

Here is neither the exact day, nor the exact latitude to be found in the Table. Wherefore

First, (by the foregoing Example) find at what time the sun sets on the 24 of January in the Latitude of 40 deg. which you shall find will be at 5 hours 4 min. Likewise find by the same foregoing Example, at what time the sun sets the same 24 of January, in the Latitude of 44 deg. which you shall find to be at 4 hours 54 min. the difference between these two is 50 min. the half thereof is 25 min. which added to 4 hours 54 min. or subtracted from 5 hours 4 min. gives 4 hours 59 min. for the time of the Suns setting, on the 24 of January in Latitude 42 deg. North: See the following Operation.

	Lat. ☉		Set Lat. ☉	
January 21	{ 40	{ 5 2	{ 44	{ 4 50
January 27		{ 5 6		{ 4 58
		<hr/>		<hr/>
differ	0	4	0	8
		<hr/>		<hr/>
half differ ad.	0	2	0	4
		<hr/>		<hr/>
January 24.	5	4	4	54

January

The Sea-man's Almanack, 1677.

January 14. in
Latitude.

40 } Sun
44 } sets.
4 } 54

Difference.

4 0 10

half differ.

2 0 5

Add 2 the half difference to the lesser Latitude, it make 42 for the required Latitude. Also add 5 min. the half difference, to 4 hours 54 min. the lesser time of setting, and the Sun is 4 hours 59 min. which is the true time of the Sun setting on the 14 of January in the Latitude of 42 deg. North.

Note here that I take and add the half difference both of Latitude and time, because 42 is the medium between 40 and 44, and January 14 is the medium between January 11 and January 17. — If it had been a third required I must have taken a third, or a fourth a fourth, &c. but of this Table enough at this time, for it is useful, plain, and easie enough to be understood without any more words.

Advice

Advice Concerning Letters which may be sent from L O N D O N.

On Monday, to

France,	Swedenland,
Spain,	Denmark,
Italy,	Kent,
Germany,	the Downs.
Flanders,	

On Tuesday, to

Holland,	Ireland,
Germany,	Scotland,
Swedenland,	England,
Denmark,	Wales.

On Wednesday, to

All parts of Kent and the Downs.

On Thursday, to

France,	All parts of
Spain,	England and
Italy,	Scotland.

On Friday, to

Flanders,	Denmark,
Germany,	Holland,
Italy,	Kent,
Swedenland,	The Downs.

On Saturday, to

All parts of England, Wales, Scotland, and Ireland.

Letters are returned from all parts of England, and Scotland certainly, every Monday, Wednesday, and Friday.

From Wales, every Monday and Friday.

From Kent and the Downs every day.

From other parts more uncertainly, in regard of the Seas.]

**A Catalogue of some Principal Markets and
Fairs kept in Divers Parts of the World:
their Beginning, Continuance, and Ending.**

Fairs or Markets in Italy.

NOcera, begins the first sund. in Lent, continues 15 days.

Fulligno, begins Apr 25, continues till the last of May.

Venice, begins on Ascension Even, continues 15 days, a most
Glorious Fair for all sorts of Vessels of Silver and Gold.

Ravenna, begins May 1, continues 13 days.

Taranto, begins May 1, continues 3 days.

Toscanello, begins May 1, continues 8 days.

Orvietto, begins Novemb. 12, continues 8 days.

Orvietto, begins on Corpus Christi day, continues 8 days.

Salerno, begins May 10, continues 15 days.

Landiano, begins the last Tuesday of May, continues 15 days.

Rimini, begins June 25, continues till July 25.

Cosenza, begins July 1, continues 8 days.

Colenza, begins July 25, continues 8 days.

Squillace, begins July 8, continues 8 days.

Montilione, begins July 21, continues 8 days.

Cesena, begins August 1, continues all that month, v. 31 days.

Hoste, in the province of Mantua, begins Aug. 10, continues 9 days.

Mandoradella-gratia, in the suburbs of Mantua, begins
Aug. 15, continues 8 days.

Ferrara, begins Aug. 15, continues 16 days.

Lanciano, begins the last Thursday in Aug. continues 15 days.

Favenza, begins Septemb. 1, continues that whole month.

Modena, begins Sep emb. 14, continues 8 days.

Recanari, begins Sep emb. 15, continues till November 15.

Alernoo, begins September 21, continues 15 days.

Crema, begins September 25, continues 16 days.

Trani, begins October 4, continues 8 days.

Revigo,

The Seaman's Almanack 1677.

Kovigo and Pizighiton, begins Oct. 29, continues 15 days.

Vicenza, begins Oct. 18, continues 15 days.

Treviso, begins Octobe 21, continues 15 days.

Nocera, begins November 1, continues 15 days.

Barletta, begins November 11, continues 8 days.

Pesara, begins November 15, continues till Christmas.

Udine, begins November 26, continues 5 days.

Bari, begins December 26, continues 10 days.

Taranto, begins January 17, continues 8 days.

Four Fairs at Lyons in France.

The 1 begins the first Munday after Epiphany, continues 15 Days.

The 2 begins the first Munday after Easter, continues 15 days.

The 3 begins the first Munday in August, continues 15 days.

The 4 begins the first Munday in September, continues 15 days.

Three Fairs or Markets in Alençon.

The 1 begins the 1 Munday after Easter, continues a whole month.

The 2 begins at Pentecost, and continues a whole month.

The 3 begins at St. Martin, but continues a whole month.

Fairs or Markets in Germany.

Frankfort, begins 15 days before Easter, continues 15 days.

Liux, begins a week after Easter, continues 8 days.

Argentina, begins June 25 continues 14 days.

Crembs, begins July 25, continues 8 days.

Liux, begins August 24, continues 8 days.

Frankfort, begins September 19, continues 15 days.

Salsborg, and S. Roten, begins Sept. 24, continues 15 days.

Crembs, begins October 28, continues 8 days.

Fulst, begins January 15, continues 10 days.

Three Fairs or Markets at Bolfan,

The first begins at Midlent, continues 14 days.

The Seaman's Almanack, 1676.

The second begins September 1, continues 14 days.

The third begins the first sund. after S. Andrew, cont. 25 days.

Fairs or Marts in Spain.

Villabon, begins the first day of Lent, continues all Lent.

Riofeco, begins 3 days after Easter, cont. till after Pentecost.

Medina, del. Campo. begins November 1, continues till 8 days before Christmas.

Fairs or Marts in Portugal.

Lamotto, begins May 1, continues 15 days.

Beggia, begins August 15, continues to that month's end.

Penella, begins September 29, continues 15 days.

Rossa begins August 15, continues 16 days.

Pennella, begins January 20, continues 15 days.

Fairs or Marts in Sicily.

Lecina, begins April 15, continues 8 days.

Messina, begins August 15, continues 20 days.

Catania, begins August 15, continues 24 days.

Cartagiron, begins October 24, continues 15 days.

Piazza, begins October 28, continues 8 days.

Castro Gionane, begins November 13, continues days.

Sarragozza, begins December 13, continues 15 days.

Palermo begins May 1, continues 19 days.

Marts or Fairs in the Island of Cyprus.

Chilaeo, begins December 29, continues 3 days.

San Demetrio, begins October 26, continues 3 days.

San Giorgio, begins November 2, continues 3 days.

S. Nicholas, begins December 6, continues 3 days.

Impigerextremos, currit Mercator, ad Indos.

Per Mace, Panperiem fugiens; per Saza, per Ignes.

The industrious Merchant, runs to th' Indian shore,
Through fire and water, drawing to be poor.

FINIS.

1978.

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